



DON'T YOU READ? IF YOU MUST STAY THEN PLEASE CLOSE THE DOOR.

WHY ALL THE THEATRICS?



CAREFULLY CUT A 1/2" (1.5CM) HOLE IN THE LOWER THIRD OF THE BOTTLE.



PUNCH OR CUT A HOLE IN A PIECE OF DUCT- TAPE. ALIGN THE TWO HOLES AND STICK THE TAPE TO THE BOTTLE.



FIRST, POUR SEVERAL DROPS OF MILK INTO THE BOTTLE. THEN FILL IT UP WITH WATER. BE SURE TO PLUG THE HOLE WITH YOUR FINGER. THE MIX SHOULD BE CLOUDY BUT SEE THROUGH.



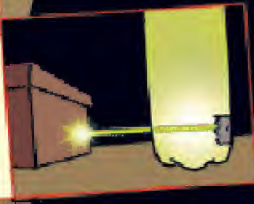
ONCE THE BOTTLE IS FULL, CORK THE TOP (OR SCREW-ON THE CAP) AND REMOVE YOUR FINGER. THE WATER WILL STAY IN THE BOTTLE UNTIL MORE AIR IS LET IN THROUGH THE TOP.



TO GET A STEADY BEAM OF LIGHT YOU CAN USE A FLASHLIGHT OR LASER-POINTER\*. IF USING THE FLASHLIGHT TAPE IT DOWN SECURELY INTO THE BACK OF A SHOEBOX, TURN IT ON. POKE A SMALL HOLE WHERE THE LIGHT IS MOST CONCENTRATED.



TWIST THE BOTTLE AND ALIGN THE BEAM SO IT SHINES THROUGH THE BOTTLE AND OUT THE DUCT TAPE HOLE.



LIGHT ONLY TRAVELS IN STRAIGHT LINES, BUT WE CAN GET IT TO BOUNCE AROUND A BEND.

WHEN ALL YOUR PIECES ARE IN PLACE AND ALIGNED JUST UNCORK THE SODA BOTTLE, AND...

WATCH THE FLOW GLOW!

THERE IS NEARLY TOTAL INTERNAL REFLECTION OF LIGHT BOUNCING OFF THE INSIDE EDGES OF THE WATER STREAM.

THIS IS WHY LIGHT TRAVELS SO FAR THROUGH GLASS FIBER OPTIC COMMUNICATIONS CABLES CARRYING TELEPHONE CALLS, TV SHOWS, AND INTERNET TRAFFIC.

COULDN'T WE JUST USE A BLACK HOLE TO REALLY BEND THE LIGHT ?

THIS JUST LOOKS LIKE AN INCREDIBLE LEAK!

\*CAUTION: LASER RADIATION -- DO NOT STARE INTO BEAM. CAN SERIOUSLY INJURE EYES!